# PALM INTRANET

Day: Tuesday Date: 4/13/2004 Time: 12:36:49

# **Inventor Name Search Result**

Your Search was:

Last Name = GRAY
First Name = DONALD

Application#	Patent#	Patent# Status Date		Title	Inventor Name 51	
60347766 Not Issued		159	01/11/2002	ACTION SEQUENCE SPORTS COLLECTIBLE	GRAY, DONALD NOEL	
60292501	Not Issued	159	05/21/2001	NEXT-NEAREST-NEIGHBOR SEQUENCE DETERMINANTS OF ANTISENSE DNA	GRAY, DONALD M	
60248270	10270		GRAY, DONALD M			
60046673	Not Issued	159	05/16/1997	STABLE THREE LEGGED FOLDING CHAIR	GRAY , DONALD F.	
60024725	Not Issued	159	09/10/1996	/10/1996 DYNAMIC ELECTRONIC GAME APPARATUS		
29143332	D462510	150	06/12/2001	ARCH SUPPORT INSOLES	GRAY, DONALD K	
29054162	D381542	150	05/06/1996	FOLDING CHAIR WITH THREE LEGS	GRAY , DONALD F	
10721134	Not Issued	020	11/25/2003	SOLVENT DRYING METHOD	GRAY, DONALD	
10701761	Not Issued	020	11/04/2003	METHOD AND SYSTEM FOR REMOVING PARTICLES AND NON-VOLATILE RESIDUE FROM SURFACES	GRAY, DONALD	
10668408	Not Issued		09/23/2003	MULTISTEP SINGLE CHAMBER PARTS PROCESSING METHOD	GRAY, DONALD	
10339282	Not Issued		01/09/2003	ACTION SEQUENCE SPORTS COLLECTIBLE	GRAY, DONALD NOEL	
10306340	Not Issued	030	11/27/2002	METHOD AND SYSTEM FOR DISAGGREGATING	GRAY, DONALD M	

			:	AUDIO/VISUAL COMPONENTS	
10284229	Not Issued	030	10/30/2002	PROCESS FOR FORMING MULTILAYER ARTICLES BY MELT EXTRUSION	GRAY, DONALD G.
10272370	Not Issued	030	10/16/2002	NETWORK CONNECTION SETUP PROCEDURE FOR TRAFFIC ADMISSION CONTROL AND IMPLICIT NETWORK BANDWIDTH RESERVATION	GRAY, DONALD M.
10247076	Not Issued	020	09/19/2002	SWITCH WITH TANDEM PORTS AND OUTLET ASSEMBLY	GRAY, DONALD M.
<u>10164792</u>	Not Issued	061	06/06/2002	METHOD AND SYSTEM FOR REMOVING PARTICLES AND NON-VOLATILE RESIDUE FROM SURFACES	GRAY, DONALD
10151277	Not Issued	041	05/20/2002	NEXT-NEAREST-NEIGHBOR SEQUENCE DETERMINANTS OF ANTISENSE DNA	GRAY, DONALD M.
10092048	Not Issued	030	03/05/2002	::-	GRAY, DONALD M.
10054405	Not Issued	161	11/13/2001	FF GENE 5 SINGLE-STRANDED DNA BINDING PROTEIN USED TO DETERMINE NON-SPECIFIC BINDING OF MODIFIED ANTISENSE AND ANTIGENE OLIGONUCLEOTIDES	GRAY, DONALD M.
10047584	Not Issued	093	01/15/2002	MULTISTEP SINGLE CHAMBER PARTS PROCESSING METHOD	GRAY, DONALD
09978536	Not Issued	041	10/16/2001	VERIFICATION OF SERVER AUTHORIZATION TO PROVIDE NETWORK RESOURCES	GRAY, DONALD M.
09954470	6546430	150	09/17/2001	NEGOTIATING OPTIMUM PARAMETERS IN A SYSTEM OF INTERCONNECTED COMPONENTS	GRAY, DONALD M.
09927649	Not Issued	161	08/10/2001	WORK INSOLES	GRAY, DONALD
09875512	Not Issued	071	06/01/2001	ARBITRATING AND SERVICING POLYCHRONOUS DATA REQUESTS IN DIRECT MEMORY ACCESS	GRAY, DONALD M.
09836834	Not Issued	030	04/17/2001	METHODS AND SYSTEMS FOR DISTRIBUTING MULTIMEDIA DATA OVER HETEROGENEOUS NETWORKS	GRAY, DONALD M.
09702505	Not Issued	061	10/31/2000	COMPOSITING IMAGES FROM MULTIPLE SOURCES	GRAY, DONALD M.

09628473	Not Issued	071	07/31/2000	ARBITRATING AND SERVICING POLYCHRONOUS DATA REQUESTS IN DIRECT MEMORY ACCESS	GRAY, DONALD M.
09522587	6418942	150	03/10/2000	SOLVENT AND AQUEOUS DECOMPRESSION PROCESSING SYSTEM	GRAY, DONALD
09517298	6503432	150	03/02/2000	PROCESS FOR FORMING MULTILAYER ARTICLES BY MELT EXTRUSION	GRAY, DONALD G
09504653	Not Issued	071	02/14/2000	LIBRARIES OF OPTIMUM SUBSEQUENCE REGIONS OF MRNA AND GENOMIC DNA FOR CONTROL OF GENE EXPRESSION	GRAY, DONALD M.
09487130	6362322	150	01/19/2000	COVERSION OF A WATSON-CRICK DNA TO A HOOGSTEEN-PAIRED DUPLEX	GRAY, DONALD M.
09073480	<u>5954391</u>	150	05/06/1998	STABLE THREE LEGGED FOLDING CHAIR	GRAY , DONALD F.
08927228	Not Issued	169	09/10/1997	DYNAMIC ELECTRONIC GAME APPARATUS	GRAY , DONALD
08648258	6004403	250	05/13/1996	SOLVENT CLEANING SYSTEM	GRAY , DONALD J.
08274989	<u>5445109</u>	150	07/13/1994	SELECTIVE BIRD FEEDER	GRAY, DONALD F.
08101442	5571997	150	08/02/1993	PRESSURE SENSITIVE POINTING DEVICE FOR TRANSMITTING SIGNALS TO A TABLET	GRAY , DONALD F.
07910684	<u>5332283</u>	150	07/08/1992	THREE LEGGED FOLDING CHAIR	GRAY , DONALD F.
07905141	5207828	150	06/23/1992	TEMPERATURE-STABLE PIGMENT-COLORED PLASTIC COMPOSITIONS, PROCESS FOR PRODUCING THEM AND MEANS FOR CONDUCTING THE PROCESS	GRAY , DONALD
<u>07771369</u>	5218174	150	10/01/1991	LOW POWER CORDLESS MAGNETIC FIELD DIGITIZER WITH DIFFERENTIAL GRID SENSING AND SYNCHRONOUS POSITION DEMODULATION	GRAY , DONALD F.
<u>07769447</u>	<u>5225637</u>	150	10/01/1991	POSITION RESOLVING SYSTEM	GRAY , DONALD F.
07722508	5146873	150	06/27/1991	FREEZELESS ANIMAL	GRAY,

				WATERER	DONALD E.
<u>07628085</u>	Not Issued	161	12/17/1990	METHOD AND APPARATUS FOR HEATING STRUCTURE MOUNTED ABOVE THE GROUND	GRAY , DONALD I.
07445593	Not Issued	166	11/07/1989	TEMPERATURE-STABLE PIGMENT-COLORED PLASTIC COMPOSITIONS, PROCESS FOR PRODUCING THEM AND MEANS FOR CONDUCTING THE PROCESS	GRAY, DONALD
07359502	<u>5038776</u>	150	05/31/1989	UNIVERSAL HEAD HARNESS	GRAY , DONALD
<u>07268615</u>	4827123	150	11/07/1988	DIRECTION SENSITIVE OPTICAL SHAFT ENCODER	GRAY , DONALD E.
07153817	Not Issued	161	02/08/1988	SOLAR POWERED WATER DISTILLER AND DESALINIZATION DEVICE	GRAY , DONALD E.
06850319	Not Issued	166	04/11/1986	DIRECTION SENSITIVE OPTICAL SHAFT ENCODER	GRAY , DONALD E.
06687548	Not Issued	166	12/28/1984	DIGITAL SWITCHING SYSTEM	GRAY , DONALD J.
06676914	Not Issued	163	11/30/1984	TELEPHONE BROADCAST COMMUNICATION SYSTEM	GRAY , DONALD J.
<u>06342784</u>	4462105	150	01/26/1982	TRANSCEIVER UNIT FOR A TELECOMMUNICATION SYSTEM	GRAY , DONALD
06249377	Not Issued	168	03/31/1981	TRANSCEIVER UNIT FOR A TELECOMMUNICATION SYSTEM	GRAY, DONALD

Search and Display More Records.

	Last Name	First Name	
Search Another:	gray	donald	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Inventor		Search	

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# **WEST Search History**

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DATE: Tuesday, April 13, 2004

Hide?	<u>Set</u> Name	Query	<u>Hit</u> <u>Count</u>
	DB=PG	PB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
<b>I</b>	L9	L8 and (non-condensable gas)	2
-	L8	L7 and first and second	11
	L7	L6 and fluids	12
	L6	L5 and introducing	18
	L5	L4 and evacuate	71
m	L4	L3 and sealing	775
	L3	L2 and chamber	1677
	L2	L1 and placing	3180
П	L1	treating and substrate and (closed circuit processing system) or (closed system)	22214

## END OF SEARCH HISTORY

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

**Search Results -** Record(s) 1 through 10 of 19 returned.

1. Document ID: US 20040055623 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 19

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040055623

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040055623 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gray, Donald

Warwick

RΙ

US

US-CL-CURRENT: 134/12

Full Title Citation	n Front Review Class	ification   Date   Reference   S	Sequences   Attachments   Claims   1	ONC Praw De

2. Document ID: US 20030131873 A1

L11: Entry 2 of 19

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030131873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030131873 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gray, Donald

Warwick

RI

US

US-CL-CURRENT: <u>134/12</u>; <u>134/108</u>, <u>134/26</u>, <u>134/30</u>, <u>134/36</u>, <u>134/95.2</u>

ABSTRACT:

The present invention is directed to a controlled environment processing chamber or chambers in which solvents and/or solutions used for processing a material or object can be introduced. The process includes a means of applying a negative gauge pressure to the chamber to remove air or other non-condensable gases. Means are provided for introducing a solvent, solvent mixture or solution in either a liquid or vapor state. A first system recovers solvent(s) or solution(s) from the object being processed and chamber, and a second system, separate from the first system, further recovers residual solvent or solution from the object and chamber. Treatment may be in the form of coating, etching, deposition, cleaning, stripping, plating, adhesion, dissolving, penetrating, anodizing, impregnating, debinding or any other process in which material is removed or deposited on a solid surface by transfer from or to a liquid or gas phase. Another aspect of the invention provides for a method of processing an object using the system described above.

3. Document ID: US 20020033186 A1

L11: Entry 3 of 19

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020033186

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020033186 A1

TITLE: Processes and apparatus for treating electronic components

PUBLICATION-DATE: March 21, 2002

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verhaverbeke, Steven	San Francisco	CA	US	
Liu, Lewis	Paoli	PA	US	
Walter, Alan	Chester Springs	PA	US	
Sheen, C. Wade	Chester Springs	PA	US	
McConnell, Christopher	Berwyn	PA	US	

US-CL-CURRENT: <u>134/26</u>; <u>134/95.1</u>

#### ABSTRACT:

A process for treating an electronic component wherein the electronic component is exposed to a heated solvent and subsequently exposed to an ozonated process fluid. The electronic component is optionally exposed to the heated solvent by exposing the electronic component to a passing layer of heated solvent. An apparatus for treating electronic components with a heated solvent and an ozonated process fluid is also provided.

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences Attachments Claims NMC Draw De
- 100 0							

4. Document ID: US 6277202 B1

L11: Entry 4 of 19

File: USPT

Aug 21, 2001

Dec 21, 1999

US-PAT-NO: 6277202

DOCUMENT-IDENTIFIER: US 6277202 B1

TITLE: Method and apparatus for utilizing a laser-guided gas-embedded pinchlamp

device

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Asmus; John F. La Jolla CA

US-CL-CURRENT: 134/1; 134/21, 134/38

#### ABSTRACT:

A method and apparatus for the removal of coatings from surfaces utilizing UV energy. Preferably, the use of a laser-guided gas-embedded pinchlamp is utilized to remove paint coatings from aircraft surfaces. In a preferred form, the present invention provides a gas-embedded laser-guided pinchlamp device that, in operation, reduces toxic waste bi-products and can remove surface paint, in particular aircraft surface paint, or other coatings at a higher efficiency than all other alternative methods implemented or investigated to date. The present invention may preferably comprise eight distinct support systems; a plasma pinchlamp chamber, a power supply, a laser system, a gas supply system and coolant system, an optical reflector, a debris collection system for containing and catching toxic effluvients, an encasement device to contain effluvium in conjunction with the collection system, and a pinchlamp positioning system. It should be noted that the present invention need not incorporate all these systems in an operable embodiment. A gas-embedded laser-guided pinchlamp device is generally described in U.S. Pat. No. 4,450,568 to Asmus which patent and description of a pinchlamp device are incorporated herein by reference as if fully described herein.

19 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full Title	Citation	Front	Review	Classification	Date	Reference	Claims   KMC   Draw D
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<b>5</b> .	Documen	nt ID:	US 60	04403 A			

File: USPT

Lll: Entry 5 of 19

US-PAT-NO: 6004403

DOCUMENT-IDENTIFIER: US 6004403 A

TITLE: Solvent cleaning system

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

Gray; Donald J.

East Greenwich

Gebhard; Peter T. E.

Providence

RΙ RΙ

US-CL-CURRENT: 134/10; 134/12, 68/18R

#### ABSTRACT:

A improved solvent cleaning method and system which is truly a closed system in which the object to be cleaned is placed in a chamber and subjected to a negative gauge pressure to remove air and other non-condensible gases after which a solvent is introduced to the evacuated chamber and the object is cleaned and then the solvent is recovered from the object and chamber within the closed system before the clean object is removed.

12 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full	Title	2   Citation   Front   Review   Classification   Date   Reference
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	6.	Document ID: US 5711819 A

L11: Entry 6 of 19

File: USPT

Jan 27, 1998

US-PAT-NO: 5711819

DOCUMENT-IDENTIFIER: US 5711819 A

TITLE: Method for cleaning the interior of tanks and other objects

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Miyasaki; Mace T.

Baltimore

MD

21212

US-CL-CURRENT:  $\underline{134}/\underline{11}$ ;  $\underline{134}/\underline{19}$ ,  $\underline{134}/\underline{21}$ ,  $\underline{134}/\underline{22.18}$ ,  $\underline{134}/\underline{22.19}$ ,  $\underline{134}/\underline{31}$ ,  $\underline{134}/\underline{34}$ ,  $\underline{34}/\underline{470}$ 

#### ABSTRACT:

A method and apparatus for cleaning the interior of a container or one or more objects suspended therein comprising generating a fluid vapor column by forming an air column having a direction of air flow. The air column is passed through a heating means, so as to heat the air, and then the cleaning fluid is injected into the air column against the direction of air flow. The fluid vapor column is then brought into contact with the interior of the container so that the vapor condenses on the interior of the container or on objects suspended therein.

8 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

ef

Full Title Citation Front Review Classification Date Reference Citation Claims KMCE Draw De

## 7. Document ID: US 5702535 A

L11: Entry 7 of 19

File: USPT

Dec 30, 1997

US-PAT-NO: 5702535

DOCUMENT-IDENTIFIER: US 5702535 A

TITLE: Dry cleaning and degreasing system

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Gray; Donald J.

East Greenwich

RI

Gebhard, III; Peter T. E.

Providence

RI

US-CL-CURRENT:  $\underline{134/10}$ ;  $\underline{134/11}$ ,  $\underline{134/12}$ ,  $\underline{134/21}$ ,  $\underline{134/40}$ ,  $\underline{68/18R}$ ,  $\underline{8/159}$ 

#### ABSTRACT:

Clothes are dry cleaned by <u>placing</u> the clothes in a tumbler/dryer, sealing the tumbler/dryer, applying a negative gauge pressure to the tumbler/dryer, providing solvent to the tumbler/dryer, activating the tumbler/dryer to dry clean the clothes, removing the solvent from the tumbler/dryer, and simultaneously throttling hot solvent vapor into the tumbler/dryer while removing vapor from the tumbler/dryer in order to dry the clothes.

24 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title Citati	on Front Review	Classification Date	Reterence	Claims KWC Draw. De
			Visit yan	

#### 8. Document ID: US 5630434 A

L11: Entry 8 of 19

File: USPT

May 20, 1997

US-PAT-NO: 5630434

DOCUMENT-IDENTIFIER: US 5630434 A

TITLE: Filter regeneration system

DATE-ISSUED: May 20, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gray; Donald J. East Greenwich RI 02818 Gebhard, III; Peter T. E. Providence RI 02908

h eb b g ee ef eb ef b

US-CL-CURRENT:  $\underline{134}/\underline{10}$ ;  $\underline{134}/\underline{11}$ ,  $\underline{134}/\underline{19}$ ,  $\underline{134}/\underline{21}$ ,  $\underline{134}/\underline{22.15}$ 

#### ABSTRACT:

Stripping contaminants/impurities from a filter includes subjecting the filter to a negative gauge pressure and applying superheated solvent vapor to the filter while maintaining the negative gauge pressure. The filter can be heated prior to being subjected to the negative gauge pressure. The superheated vapor may be composed of the same compounds as impurities being removed from the filter. The filter may be an activated carbon filter.

6 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full	Title	Citatio	Front	Review	Classification	Date	Reference		Claims k	VMC Drawi De
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9. Document ID: US 5261966 A

L11: Entry 9 of 19

File: USPT

Nov 16, 1993

US-PAT-NO: 5261966

DOCUMENT-IDENTIFIER: US 5261966 A

TITLE: Method of cleaning semiconductor wafers using mixer containing a bundle of

gas permeable hollow yarns

DATE-ISSUED: November 16, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Mashimo; Noriyoshi Tokyo JP Okumura; Katsuya Yokohama JP

US-CL-CURRENT: 134/2; 134/26, 134/3, 134/31, 134/36

#### ABSTRACT:

For cleaning semiconductor wafers in a cleaning vessel by supplying a cleaning fluid through a supply line thereto, a mixer is provided. Deionized water is supplied to the mixer through a deionized water supply line, and a cleaning gas is supplied thereto from a gas reservoir to produce the cleaning fluid. After treating the semiconductor wafers with the cleaning fluid, the deionized water is supplied to the cleaning vessel to rinse them.

8 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full Title	Citation	Front	Review	Classification	Date	Reference	Claims KWC Draw De

10. Document ID: US 5244507 A

L11: Entry 10 of 19

File: USPT

Sep 14, 1993

US-PAT-NO: 5244507

DOCUMENT-IDENTIFIER: US 5244507 A

TITLE: Method of cleaning epoxy articles

DATE-ISSUED: September 14, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rowe; Edward A. Grand Island NY

 $\text{US-CL-CURRENT: } \underline{134/38}; \ \underline{134/12}, \ \underline{134/40}, \ \underline{510/167}, \ \underline{510/175}, \ \underline{510/202}, \ \underline{510/204}, \ \underline{510/412},$ 

510/461

#### ABSTRACT:

Disclosed is a method of removing synthetic and natural resins from an article containing an epoxy resin without damaging the epoxy resin. The article is contacted with a solvent having the formula ##STR1## where n is 1 or 2, which dissolves the synthetic and natural resins and forms a solution. The solution is then separated from the article. The solvent can be recovered from the solution.

20 Claims, 0 Drawing figures Exemplary Claim Number: 1

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Term		Documents
134/12		362
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134/21		. 1183
134/21S		C
134/26		1392
134/26S		0
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((134/12 OR 134/21 OR 134/ L2).PGPB,USPT,EPAB,JPA	1/26).CCLS. AND	19

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Search Results - Record(s) 1 through 10 of 19 returned.

1. Document ID: US 20040055623 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 19

File: PGPB

Mar 25, 2004

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20040055623

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040055623 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gray, Donald

Warwick

RI

US

US-CL-CURRENT: 134/12

Full		Title	Citation Front	Review Classification	Date Reference	Sequences   Attachments   Clair	ns   KWC   Draw De
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File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030131873

PGPUB-FILING-TYPE: new

L11: Entry 2 of 19

DOCUMENT-IDENTIFIER: US 20030131873 A1

TITLE: Multistep single chamber parts processing method

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gray, Donald

Warwick

RI

US

US-CL-CURRENT: <u>134/12</u>; <u>134/108</u>, <u>134/26</u>, <u>134/30</u>, <u>134/36</u>, <u>134/95.2</u>

ABSTRACT:

The present invention is directed to a controlled environment processing chamber or chambers in which solvents and/or solutions used for processing a material or object can be introduced. The process includes a means of applying a negative gauge pressure to the chamber to remove air or other non-condensable gases. Means are provided for introducing a solvent, solvent mixture or solution in either a liquid or vapor state. A first system recovers solvent(s) or solution(s) from the object being processed and chamber, and a second system, separate from the first system, further recovers residual solvent or solution from the object and chamber. Treatment may be in the form of coating, etching, deposition, cleaning, stripping, plating, adhesion, dissolving, penetrating, anodizing, impregnating, debinding or any other process in which material is removed or deposited on a solid surface by transfer from or to a liquid or gas phase. Another aspect of the invention provides for a method of processing an object using the system described above.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Drawi De
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	3. 1	Docume	nt ID:	US 20	020033186	<b>A</b> 1		•				
L11:	Entr	y 3 of	19				File: 'P	GPB		Mar	21,	2002

PGPUB-DOCUMENT-NUMBER: 20020033186

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020033186 A1

TITLE: Processes and apparatus for treating electronic components

PUBLICATION-DATE: March 21, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verhaverbeke, Steven	San Francisco	CA	US	
Liu, Lewis	Paoli	PA	US	
Walter, Alan	Chester Springs	PA	US	
Sheen, C. Wade	Chester Springs	PA	US	•
McConnell, Christopher	Berwyn	PA	US	

US-CL-CURRENT: <u>134/26</u>; <u>134/95.1</u>

#### ABSTRACT:

A process for treating an electronic component wherein the electronic component is exposed to a heated solvent and subsequently exposed to an ozonated process fluid. The electronic component is optionally exposed to the heated solvent by exposing the electronic component to a passing layer of heated solvent. An apparatus for treating electronic components with a heated solvent and an ozonated process fluid is also provided.

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims KWIC	Drawt D

4. Document ID: US 6277202 B1

Record List Display

L11: Entry 4 of 19

File: USPT

Aug 21, 2001

US-PAT-NO: 6277202

DOCUMENT-IDENTIFIER: US 6277202 B1

TITLE: Method and apparatus for utilizing a laser-guided gas-embedded pinchlamp

device

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Asmus; John F.

La Jolla

CA

US-CL-CURRENT: 134/1; 134/21, 134/38

#### ABSTRACT:

A method and apparatus for the removal of coatings from surfaces utilizing UV energy. Preferably, the use of a laser-guided gas-embedded pinchlamp is utilized to remove paint coatings from aircraft surfaces. In a preferred form, the present invention provides a gas-embedded laser-guided pinchlamp device that, in operation, reduces toxic waste bi-products and can remove surface paint, in particular aircraft surface paint, or other coatings at a higher efficiency than all other alternative methods implemented or investigated to date. The present invention may preferably comprise eight distinct support systems; a plasma pinchlamp chamber, a power supply, a laser system, a gas supply system and coolant system, an optical reflector, a debris collection system for containing and catching toxic effluvients, an encasement device to contain effluvium in conjunction with the collection system, and a pinchlamp positioning system. It should be noted that the present invention need not incorporate all these systems in an operable embodiment. A gas-embedded laser-guided pinchlamp device is generally described in U.S. Pat. No. 4,450,568 to Asmus which patent and description of a pinchlamp device are incorporated herein by reference as if fully described herein.

19 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims KWC Draw

5. Document ID: US 6004403 A

L11: Entry 5 of 19

File: USPT

Dec 21, 1999

US-PAT-NO: 6004403

DOCUMENT-IDENTIFIER: US 6004403 A

TITLE: Solvent cleaning system

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

Gray; Donald J.

East Greenwich

Gebhard; Peter T. E.

RI

Providence

RI

US-CL-CURRENT: 134/10; 134/12, 68/18R

#### ABSTRACT:

A improved solvent cleaning method and system which is truly a closed system in which the object to be cleaned is placed in a chamber and subjected to a negative gauge pressure to remove air and other non-condensible gases after which a solvent is introduced to the evacuated chamber and the object is cleaned and then the solvent is recovered from the object and chamber within the closed system before the clean object is removed.

12 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full Title	Citation   Front	Review C	lassification	Date Reference	Claims KW	C Draws De
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6. D	ocument ID:	US 5711	819 A			

File: USPT

US-PAT-NO: 5711819

L11: Entry 6 of 19

DOCUMENT-IDENTIFIER: US 5711819 A

TITLE: Method for cleaning the interior of tanks and other objects

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

Jan 27, 1998

Miyasaki; Mace T.

Baltimore

MD

21212

US-CL-CURRENT:  $\underline{134/11}$ ;  $\underline{134/19}$ ,  $\underline{134/21}$ ,  $\underline{134/22.18}$ ,  $\underline{134/22.19}$ ,  $\underline{134/31}$ ,  $\underline{134/34}$ ,  $\underline{34/470}$ 

#### ABSTRACT:

A method and apparatus for cleaning the interior of a container or one or more objects suspended therein comprising generating a fluid vapor column by forming an air column having a direction of air flow. The air column is passed through a heating means, so as to heat the air, and then the cleaning fluid is injected into the air column against the direction of air flow. The fluid vapor column is then brought into contact with the interior of the container so that the vapor condenses on the interior of the container or on objects suspended therein.

8 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

ef

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw De

### 7. Document ID: US 5702535 A

L11: Entry 7 of 19

File: USPT

Dec 30, 1997

US-PAT-NO: 5702535

DOCUMENT-IDENTIFIER: US 5702535 A

TITLE: Dry cleaning and degreasing system

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gray; Donald J. East Greenwich RI Gebhard, III; Peter T. E. Providence RI

US-CL-CURRENT: 134/10; 134/11, 134/12, 134/21, 134/40, 68/18R, 8/159

#### ABSTRACT:

Clothes are dry cleaned by <u>placing</u> the clothes in a tumbler/dryer, sealing the tumbler/dryer, applying a negative gauge pressure to the tumbler/dryer, providing solvent to the tumbler/dryer, activating the tumbler/dryer to dry clean the clothes, removing the solvent from the tumbler/dryer, and simultaneously throttling hot solvent vapor into the tumbler/dryer while removing vapor from the tumbler/dryer in order to dry the clothes.

24 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title	Citation From	Review Class	ification Date	Reference		Claims	KMIC Draw De
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### 8. Document ID: US 5630434 A

L11: Entry 8 of 19 File: USPT May 20, 1997

US-PAT-NO: 5630434

DOCUMENT-IDENTIFIER: US 5630434 A

TITLE: Filter regeneration system

DATE-ISSUED: May 20, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gray; Donald J. East Greenwich RI 02818 Gebhard, III; Peter T. E. Providence RI 02908

h eb bgeeef eb ef be

US-CL-CURRENT: 134/10; 134/11, 134/19, 134/21, 134/22.15

#### ABSTRACT:

Stripping contaminants/impurities from a filter includes subjecting the filter to a negative gauge pressure and applying superheated solvent vapor to the filter while maintaining the negative gauge pressure. The filter can be heated prior to being subjected to the negative gauge pressure. The superheated vapor may be composed of the same compounds as impurities being removed from the filter. The filter may be an activated carbon filter.

6 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims KWC Draw De
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9. Document ID: US 5261966 A

L11: Entry 9 of 19

File: USPT

Nov 16, 1993

US-PAT-NO: 5261966

DOCUMENT-IDENTIFIER: US 5261966 A

TITLE: Method of cleaning semiconductor wafers using mixer containing a bundle of

gas permeable hollow yarns

DATE-ISSUED: November 16, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTR

Mashimo; Noriyoshi Tokyo JP

Okumura; Katsuya Yokohama JP

US-CL-CURRENT: 134/2; 134/26, 134/3, 134/31, 134/36

### ABSTRACT:

For cleaning semiconductor wafers in a cleaning vessel by supplying a cleaning fluid through a supply line thereto, a mixer is provided. Deionized water is supplied to the mixer through a deionized water supply line, and a cleaning gas is supplied thereto from a gas reservoir to produce the cleaning fluid. After treating the semiconductor wafers with the cleaning fluid, the deionized water is supplied to the cleaning vessel to rinse them.

8 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Fuil	Title	Citat	ion Fro	nt Review	Classification	Date	Reference	Claims KWC Draw De
7								

10. Document ID: US 5244507 A

L11: Entry 10 of 19

File: USPT

Sep 14, 1993

COUNTRY

US-PAT-NO: 5244507

DOCUMENT-IDENTIFIER: US 5244507 A

TITLE: Method of cleaning epoxy articles

DATE-ISSUED: September 14, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Rowe; Edward A. Grand Island NY

US-CL-CURRENT:  $\underline{134}/\underline{38}$ ;  $\underline{134}/\underline{12}$ ,  $\underline{134}/\underline{40}$ ,  $\underline{510}/\underline{167}$ ,  $\underline{510}/\underline{175}$ ,  $\underline{510}/\underline{202}$ ,  $\underline{510}/\underline{204}$ ,  $\underline{510}/\underline{412}$ ,

<u>510/461</u>

#### ABSTRACT:

Disclosed is a method of removing synthetic and natural resins from an article containing an epoxy resin without damaging the epoxy resin. The article is contacted with a solvent having the formula ##STR1## where n is 1 or 2, which dissolves the synthetic and natural resins and forms a solution. The solution is then separated from the article. The solvent can be recovered from the solution.

20 Claims, 0 Drawing figures Exemplary Claim Number: 1

ull Title Citation	Front   Review   Cl	assification   Date   Ref	erence	Claimis	© KWIC □
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Term				Documen	nts
134/12			·	30	62
134/12S					0
134/21				118	83
134/21S					0
134/26				139	92
134/26S					0
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		4/26).CCLS. AND AB,DWPI,TDBD.	)		19

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**Search Results -** Record(s) 11 through 19 of 19 returned.

11. Document ID: US 5240507 A

Using default format because multiple data bases are involved.

L11: Entry 11 of 19

File: USPT

Aug 31, 1993

COUNTRY

US-PAT-NO: 5240507

DOCUMENT-IDENTIFIER: US 5240507 A

TITLE: Cleaning method and system

DATE-ISSUED: August 31, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Gray; Donald J. East Greenwich RI 02818

Gebhard; Peter T. E. Providence RI 02908

US-CL-CURRENT: <u>134/21</u>; <u>134/11</u>

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw De

12. Document ID: US 5169454 A

L11: Entry 12 of 19 File: USPT Dec 8, 1992

US-PAT-NO: 5169454

DOCUMENT-IDENTIFIER: US 5169454 A

TITLE: Method and apparatus for cleaning objects with environmentally harmful

solvents, in particular halogenated hydrocarbons

DATE-ISSUED: December 8, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Weil; Peter D-8000 Munich 40 DE

US-CL-CURRENT:  $\underline{134/10}$ ;  $\underline{134/111}$ ,  $\underline{134/26}$ ,  $\underline{134/34}$ ,  $\underline{134/95.1}$ ,  $\underline{134/98.1}$ 

ABSTRACT:

A method and an apparatus for cleaning objects with environmentally harmful solvents, particularly halogenated hydrocarbons, in a system which is substantially closed during the cleaning process provides a solution for simplifying the transporting and particularly the handling of such solvents, wherein the endangerment of persons and environment is simultaneously reduced to the lowest possible degree or completely prevented, and which achieves in particular an optimal utilization and recovery of the solvent.

This is achieved in that a portion of this solvent is conveyed into a processing space from a large-volume reservoir tank, in that the objects to be cleaned are subsequently wetted with the solvent located in the processing space and cleaned by means of it, the solvent is guided back out of the processing space into a collecting tank after one or more cleaning processes and/or the gas atmosphere in the processing space is filtered and cleaned prior to the removal of the cleaned objects.

Only one drawing is to be disclosed with reference to this.

11 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

Full Title:	Citation Front	Review Clas	sification Date	Reterence	Claims   KMC   Draw De
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13. Document ID: US 5026432 A

L11: Entry 13 of 19

File: USPT

Jun 25, 1991

US-PAT-NO: 5026432

DOCUMENT-IDENTIFIER: US 5026432 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for removing and disposing of contaminated concrete

DATE-ISSUED: June 25, 1991

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Johnson; Dennis W.

Barberton

OH

US-CL-CURRENT:  $\underline{134}/\underline{21}$ ;  $\underline{134}/\underline{26}$ ,  $\underline{134}/\underline{38}$ ,  $\underline{134}/\underline{40}$ ,  $\underline{134}/\underline{42}$ 

#### ABSTRACT:

The present invention is directed to a method and apparatus for removing contaminated masonry such as contaminated concrete in large volumes and continuously collecting the contaminated material in a series of containers. More specifically, the present invention is directed to a system for removing contaminated concrete contaminated with a hazardous material such as PCBs and collecting and treating the contaminated concrete so as to safely dispose of the contamination material.

17 Claims, 7 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 4

14. Document ID: US 5018890 A

L11: Entry 14 of 19

File: USPT

May 28, 1991

US-PAT-NO: 5018890

DOCUMENT-IDENTIFIER: US 5018890 A

TITLE: Pool cleaning system

DATE-ISSUED: May 28, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

May; Brian E. Amsterdam NY

US-CL-CURRENT: 401/46; 134/167R, 134/21, 134/3, 15/1.7, 15/98

#### ABSTRACT:

A portable pool cleaning system for cleaning the surfaces of swimming pools and surrounding decks without draining the pool water. The system includes a cart for containing an electrically powered pump, a line to an external source of muriatic acid or another suitable swimming pool cleaning agent and a line to a clean water source. The system also includes a cleaning wand having a cleaning head for engagement with the pool walls and floor. A valving system is used to regulate the flow of a cleaning agent through the system, to dilute the muriatic acid with water from the clean water source, and to recirculate through the system any unused portion of muriatic acid which is prevented from flowing to the cleaning wand. The valving system further allows the operator to flush the system with clean water before withdrawing the cleaning wand from the pool water. A cylindrical safety shield is provided for each valve in case of leakage in order to prevent serious damage to system elements, objects external to the system, and persons within the pool vicinity. Switches wired in series with the pump switch are closed only when the safety shields are in place, thus preventing use of the cleaning system without this safety feature.

25 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 6

15. Document ID: US 4995914 A

L11: Entry 15 of 19 File: USPT Feb 26, 1991

US-PAT-NO: 4995914

DOCUMENT-IDENTIFIER: US 4995914 A

TITLE: Process for removing hazardous or toxic material from a structure

DATE-ISSUED: February 26, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Teter; Bruce W. Hayden Lake ID 83835

 $\text{US-CL-CURRENT: } \underline{134/21}; \ \underline{134/22.12}, \ \underline{134/22.18}, \ \underline{134/24}, \ \underline{134/26}, \ \underline{134/42}$ 

#### ABSTRACT:

A system and process for removing hazardous or toxic particulate materials from surfaces includes all components necessary for safe removal of the material in a van body that can be moved easily from one site to another. The system includes mechanism for sealing of selected areas, with tubing connecting the selected sealed areas to a separator chamber in the van body. Air pressure is lowered within the sealed enclosed area and airflow is maintained through the tube to the separator chamber. Fluidic carrier jets may also be directed within the tube toward the separator chamber. Particulate material can be removed from the surface within the enclosure and deposited into the tube where it flows in an air and fluid carrier stream to the separator chamber. There, larger particulates are allowed to drop into a collection tank. Remaining particulate materials are filtered by a high efficiency particulate absolute filter until the air is safe to be discharged into the atmosphere. Airflow and pressure differential is produced by one or more of a series of valved fan units near a discharge end of the chamber. An auxiliary airflow tube and return air (make-up air) tube can also be connected between the chamber and enclosure.

8 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

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 rinte	Chanen	Front	Review	Classification	Date	Welstelles		C 12 11112 1 100012 1 1 1 1 2 0 0 1

16. Document ID: US 4885099 A

L11: Entry 16 of 19 File: USPT Dec 5, 1989

US-PAT-NO: 4885099

DOCUMENT-IDENTIFIER: US 4885099 A

TITLE: Closed system solvent stripping and reclaiming apparatus

DATE-ISSUED: December 5, 1989

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kelly; George H. Anchorage AK

US-CL-CURRENT: 210/771; 134/12, 202/170, 202/175, 202/200, 202/233, 203/39, 203/4,

203/95, 203/97, 203/DIG.16, 210/774

#### ABSTRACT:

A closed circuit solvent stripping and reclaiming apparatus for recovering solvent from filters used in dry cleaning machines comprising a steam cabinet (2), and condenser (3), a water solvent separator (4), a recirculating tank (5), a blower (6) and a carbon bed adsorber (7). Dry cleaning filters are disassembled and their constituents separated and placed in foraminous trays (9) inside the steam cabinet (2). The filter material is agitated with a shaker and alternately subjected to dry heat, vaporized recycled solvent saturated water, and live steam. Steam and solvent vapors derived from the filters are conducted to a condenser (3) for liquification followed by separation in the water solvent separator (4). Solvent is thereby reclaimed and solvent saturated water is collected and stored in the recycling tank for reintroduction into the steam cabinet for subsequent stripping cycle. Upon completion fo the live steam stripping step, air is conducted into the steam cabinet, heated and passed through the filter material. Residual solvent vapors are then conducted via a blower (6) to a carbon bed adsorber so that only solvent-free air is vented to the atmosphere. The carbon bed adsorber (7) is periodically desorbed with live steam and the vapors are returned to the condenser (3) for liquification and separation in the solvent water separator (4). Excess solvent saturated water may be drained from the recycling tank or reintroduced into the steam cabinet where it is vaporized. These vapors are then conducted via the blower (6) to the adsorber (7) for adsorption.

19 Claims, 2 Drawing figures Exemplary Claim Number: 8 Number of Drawing Sheets: 1

Full	Title   Citation   Front	Review   Classification	Data Reference	Claims KMC Draw Do
	17. Document ID: Entry 17 of 19	US 4774974 A	File: USPT	Oct 4, 1988

US-PAT-NO: 4774974

DOCUMENT-IDENTIFIER: US 4774974 A

TITLE: System for removing asbestos from structures

DATE-ISSUED: October 4, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Teter; Bruce W. Coeur d'Alene ID 83814

US-CL-CURRENT: 134/110; 134/21, 134/22.1, 134/22.12, 134/24, 134/25.4, 55/302,

96/290

#### ABSTRACT:

A system and process for removing hazardous or toxic particulate materials from surfaces includes all components necessary for safe removal of the material in a van body that can be moved easily from one site to another. The system includes mechanism for sealing of selected areas, with tubing connecting the selected sealed areas to a separator chamber in the van body. Air pressure is lowered within the sealed enclosed area and airflow is maintained through the tube to the separator chamber. Fluidic carrier jets may also be directed within the tube toward the separator chamber. Particulate materials can be removed from the surface within the enclosure and deposited into the tube where it flows in an air and fluid carrier stream to the separator chamber. There, larger particulates are allowed to drop into a collection tank. Remaining particulate materials are filtered by a high efficiency particulate absolute filter until the air is safe to be discharged into the atmosphere. Airflow and pressure differential is produced by one or more of a series of valved fan units near a discharge end of the chamber. An auxiliary airflow tube and return air (make-up air) tube can also be connected between the chamber and enclosure.

12 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

ull	Title	Citation	Front	Review	Classification	Reference		Clai	ms KWC	D12
		•					 			

1... 18. Document ID: US 4468257 A

L11: Entry 18 of 19 File: USPT Aug 28, 1984

US-PAT-NO: 4468257

DOCUMENT-IDENTIFIER: US 4468257 A

TITLE: Washing and removal method of high molecular substances

DATE-ISSUED: August 28, 1984

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaneko; Masahiro	Izumi			JP
Asanuma; Tadashi	Izumi			JP
Uchikawa; Nobutaka	Takaishi			JP
Fujio; Ichiro	Izumi			JP
Shiomura; Tetsunosuke	Takaishi			JP

US-CL-CURRENT: <u>134/22.13</u>; <u>134/12</u>, <u>134/22.14</u>, <u>134/22.17</u>, <u>134/22.19</u>, <u>203/72</u>, <u>203/76</u>, <u>422/901</u>, <u>528/484</u>

#### ABSTRACT:

Method of adding water and a hydroxide of an alkali metal or alkaline earth metal to a washing solvent such as an alkylamide and/or alkylsulfoxide when washing and removing high molecular substances stuck on the interior of a production apparatus or molding machine for an aromatic vinyl-acrylonitrile copolymer. A method for regenerating and recovering the washing solvent used for the above-mentioned washing and removal by means of an evaporator and distillation tower.

2 Claims, 1 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De

19. Document ID: US 3770501 A

L11: Entry 19 of 19

File: USPT

Nov 6, 1973

US-PAT-NO: 3770501

DOCUMENT-IDENTIFIER: US 3770501 A

TITLE: METHOD AND APPARATUS FOR REMOVING COATINGS FROM METALS

DATE-ISSUED: November 6, 1973

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Kemper; Eugene L.

Mt. Clemens

MI

US-CL-CURRENT:  $\underline{134}/\underline{19}$ ;  $\underline{134}/\underline{2}$ ,  $\underline{134}/\underline{21}$ ,  $\underline{134}/\underline{38}$ ,  $\underline{134}/\underline{85}$ 

#### ABSTRACT:

Thermochemical procedure and equipment for the substantially airless stripping of organic base coatings from objects by volatilization of the coating material as immersed in a molten salt bath. The procedure is carried out in a shroud-like object-receiving retort. This retort, when immersed at least in part at an open bottom thereof penetrating in said bath, is substantially sealed hermetically against entry of external atmospheric air to its interior. The bath is heated in a conventional pot by conventional immersion heating means; and the interior of the retort is conditioned during immersion, as by being placed and held under partial vacuum or by introducing an inert gas, to greatly reduce air content in the space therein above the bath, thus creating a nonoxidizing atmosphere. The retort is shown as being by preference sealed at its top by a removable gas tight cover. Volatilization continues for a relatively very brief time period, the resulting vapor product and possible gas arising to the conditioned retort space above the bath level. During this volatilizing period, or directly before and thereafter and with the retort still sealed and bottom-immersed in the bath, its interior above the salt level is evacuated, as by a vacuum pump. The volatilization vapor, minimal product of combustion, smoke and the like are piped in a closed system to conventional incinerator, filter and/or scrubber means prior to discharge to atmosphere. The retort is then unsealed and placed in position for rinsing and removal of the stripped object or objects therefrom.

26 Claims, 4 Drawing figures Number of Drawing Sheets: 1

Full Title Citation Front Review Classification Date	Reference Claims NMC Drawi De
Clear Generate Collection Print Ev	vd Refs Generate OACS

Term	Documents
134/12	362
134/12S	0
134/21	1183
134/21S	0
134/26	1392
134/26S	0
((((134/12 OR 134/21 OR 134/26).CCLS.) AND 2).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	19
((134/12 OR 134/21 OR 134/26).CCLS. AND L2).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	19

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m	L11	(134/12 or 134/21 or 134/26).ccls. and 12	19
	L10	(134/12 or 134/21 or 134/26).ccls. and 15	2
	L9	L8 and (non-condensable gas)	2
	L8	L7 and first and second	11
	L7	L6 and fluids	12
$\Box$	L6	L5 and introducing	18
	L5	L4 and evacuate	71
	L4	L3 and sealing	775
	L3	L2 and chamber	1677
	L2	L1 and placing	3180
	L1	treating and substrate and (closed circuit processing system) or (closed system)	22214

## END OF SEARCH HISTORY